

WHAT IS CLAIMED IS:

1. A system for inter-thread communications, comprising:
at least one thread from a first group of threads;
a first buffer for buffering a request from the at least one thread from the
5 first group;
at least one thread from a second group of threads for performing an
operation according to the request retrieved from the first buffer; and
a second buffer for buffering a response with respect to the request, the
response being generated by the at least one thread from the second group, the
10 response being retrieved by the at least one thread from the first group.
2. The system according to claim 1, wherein the first group of threads
includes a user interface thread.
- 15 3. The system according to claim 1, wherein the second group of threads
includes a worker thread.
4. The system according to claim 1, wherein the first buffer comprises a
plurality of buffer cells.
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5. The system according to claim 1, wherein the second buffer comprises a
plurality of buffer cells.
6. A method for inter-thread communications, comprising:

sending, by a thread from a first group of threads, a request to a first buffer;

retrieving, by a thread from a second group of threads, the request from the first buffer according to a predetermined criterion;

5 processing the request, retrieved by the retrieving;

sending, by the thread from the second group, a response with respect to the request to a second buffer after the processing; and

receiving, by a thread from the first group, the response from the second buffer according to a second predetermined criterion.

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7. The method according to claim 6, wherein the first group includes a user interface thread; and

the second group includes a worker thread.

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8. The method according to claim 6, wherein retrieving the request by a thread from the second group according to a predetermined criterion includes retrieving according to whether the thread from the second group can perform the operation requested by the request.

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9. The method according to claim 6, wherein the receiving the response by a thread from the first group of thread according to a second predetermined criterion includes receiving according to whether the response is addressed to the thread from the first group of threads.

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10. A method of inter-thread communication, comprising:

generating, by a thread from a first group of threads, a request to a thread
from a second group of threads;

identifying an available buffer cell in a first buffer; and

packing the request in the available buffer cell of the first buffer.

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11. The method according to claim 10, further comprising:

receiving a response with respect to the request, generated by the thread
from the second group, from a second buffer after the request being packed by the
packing.

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12. A method of inter-communication, comprising:

receiving, by a thread from a second group of threads, a request, sent by a
thread from a first group of threads, from a first buffer; and processing the request.

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13. The method according to claim 12, further comprising:

generating a response with respect to the request after the processing;
identifying an available buffer cell in a second buffer; and
packing the response in the available buffer cell in the second buffer.

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14. A computer-readable medium having program code stored therein for
causing, when executed, inter-thread communications to occur comprising:

sending, by a thread from a first group of threads, a request to a first
buffer;

retrieving, by a thread from a second group of threads, the request from the
first buffer according to a predetermined criterion;

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processing the request, retrieved by the retrieving;
sending, by the thread from the second group, a response with respect to
the request to a second buffer after the processing; and
receiving, by a thread from the first group of threads, the response from
5 the second buffer according to a second predetermined criterion.

15. The medium according to claim 14, wherein the first group of
threads includes a user interface thread; and
the second group of threads includes a worker thread.

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16. The medium according to claim 14, wherein retrieving the request by a
thread from the second group of threads according to a predetermined criterion
includes retrieving according to whether the thread from the second group can
perform the operation requested by the request.

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17. The medium according to claim 14, wherein the receiving the
response by a thread from the first group of threads according to a second
predetermined criterion includes receiving according to whether the response is
addressed to the thread from the first group of threads.

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18. A computer-readable medium having program code stored thereon
which, when executed, causes the occurrence of inter-thread communication, the
program comprising:

generating, by a thread from a first group of threads, a request to a thread
from a second group of threads;

25 identifying an available buffer cell in a first buffer; and

packing the request in the available buffer cell of the first buffer.

19. The medium according to claim 18, wherein the program code when executed further causes:

5 receiving a response with respect to the request, generated by the thread from the second group of threads, from a second buffer after the request being packed by the packing.

20. A computer-readable medium encoded with a program of a thread for
10 inter-communication, the program, when executed, causing:

receiving, by a thread from a second group of threads, a request, sent by a thread from a first group of threads, from a first buffer; and
processing the request.

15 21. The medium according to claim 20, the program further causing:
generating a response with respect to the request after the processing;
identifying an available buffer cell in a second buffer; and
packing the response in the available buffer cell in the second buffer.